WM-D6C/TC-D6C

SONY

SERVICE MANUAL

Ver 1.1 2001.06

US Model
WM-D6C/TC-D6C
Canadian Model
AEP Model
UK Model
E Model
WM-D6C

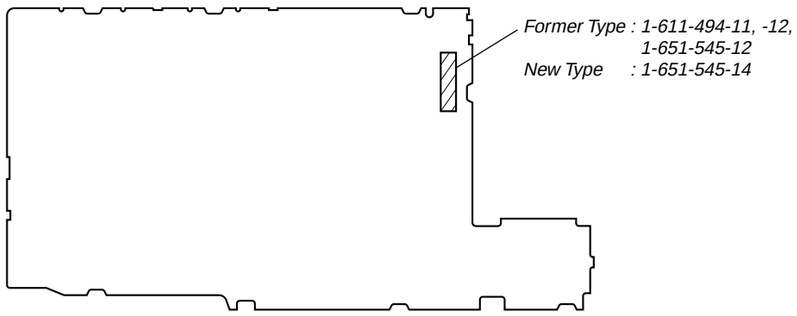
SUPPLEMENT-4

Subject: Change of servo circuit

(ECN-WMA00831)

• **NEW/FORMER TYPE DISCRIMINATION**

– MAIN BOARD (Conductor Side) –



1. DIAGRAMS

1-1. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Boards:
- o——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ● : Through hole.
- ▬ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

Note on Schematic Diagram:
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- Components for right channel have same values as for left channel. Reference numbers are coded from 200.
- ▭ : panel designation.
- ▬ : B+ Line.
- ▭ : adjustment for repair.
- AC voltage readings in the bias oscillator with a level meter.
- Total current is measured with no cassette installed.
- Power voltage is dc 6 V and fed with regulated dc power supply from external power voltage jack.
- Voltages are dc with respect to ground under no-signal conditions.
  no mark : playback
  ( ) : record
  < > : fast forward
  [ ] : rewind
  ⟨⟨ ⟩⟩ : pause
  I : NORM
  II : CrO2
  IV : METAL
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ➡ : playback

9-951-385-84 **Sony Corporation**
2001F0500-1 **Personal Audio Company**
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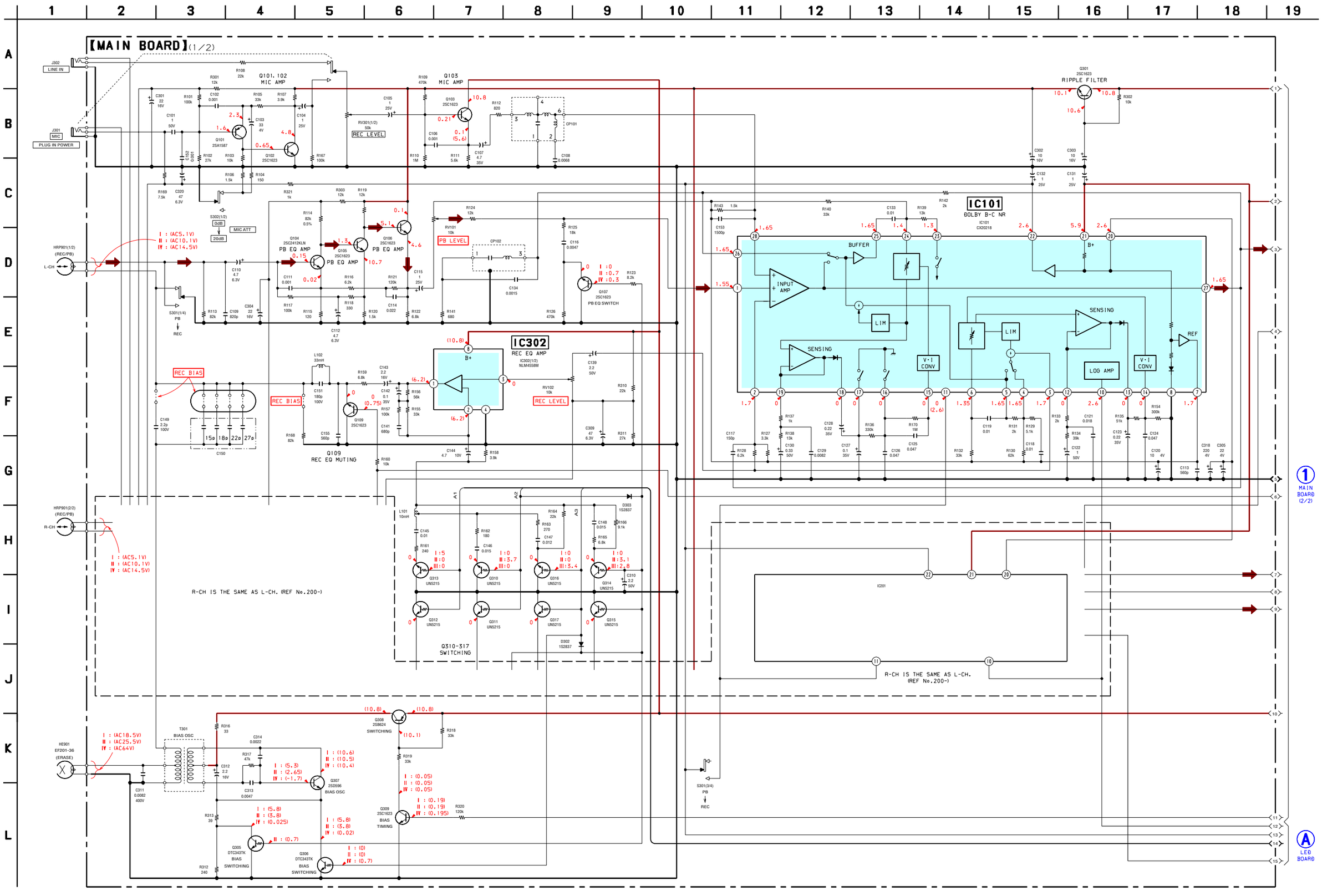
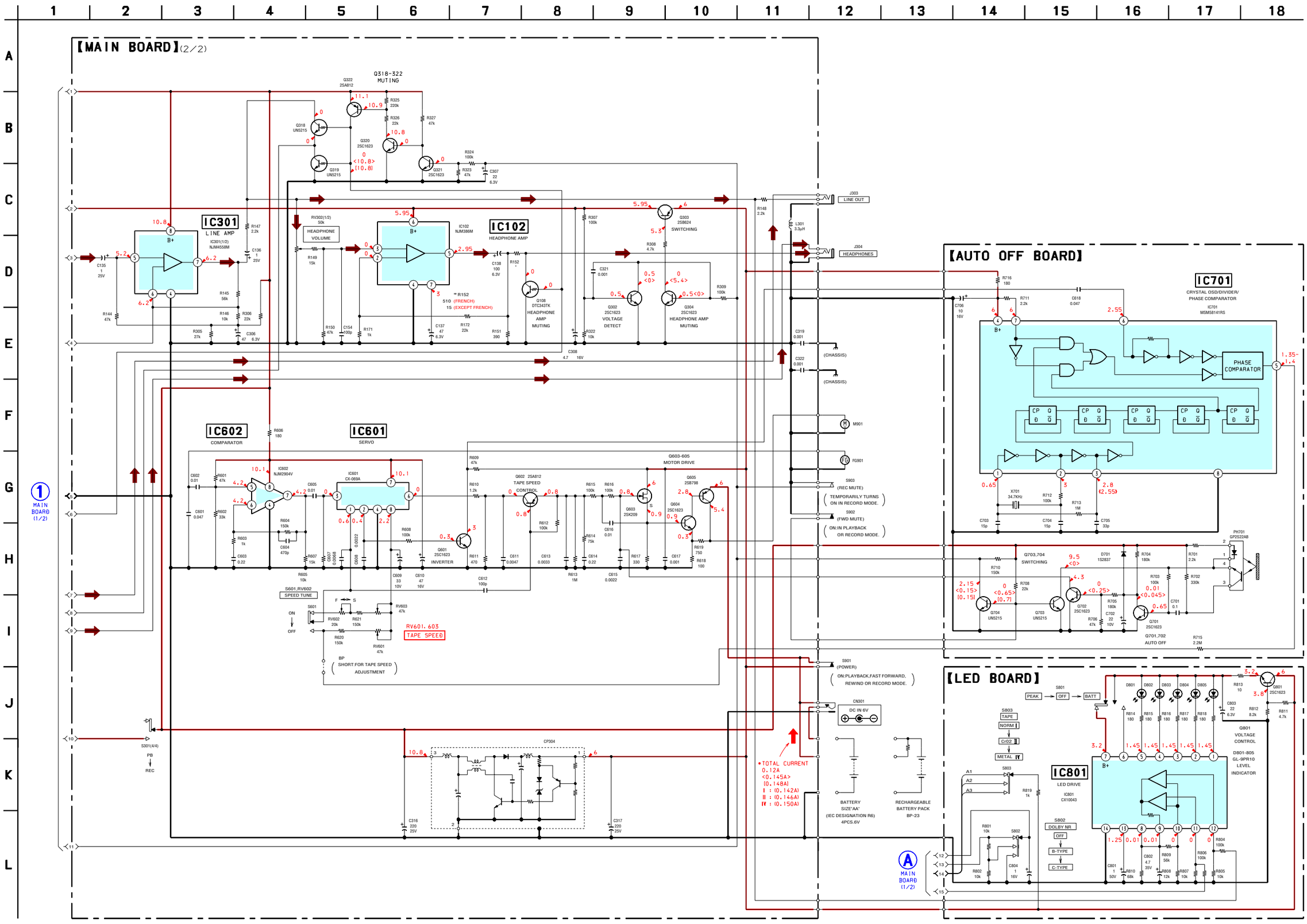
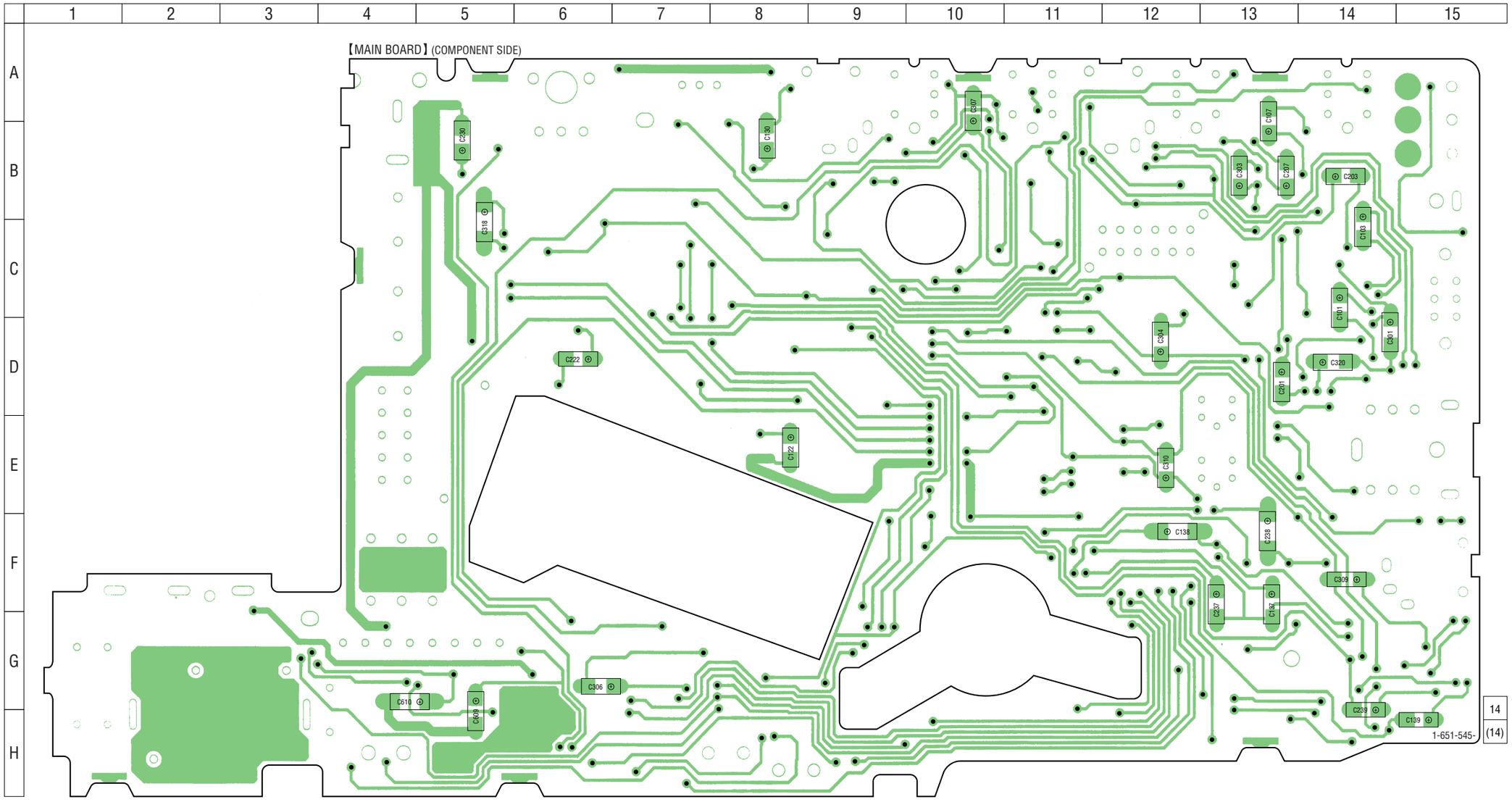
1-2. SCHEMATIC DIAGRAM – MAIN Section (1/2) –



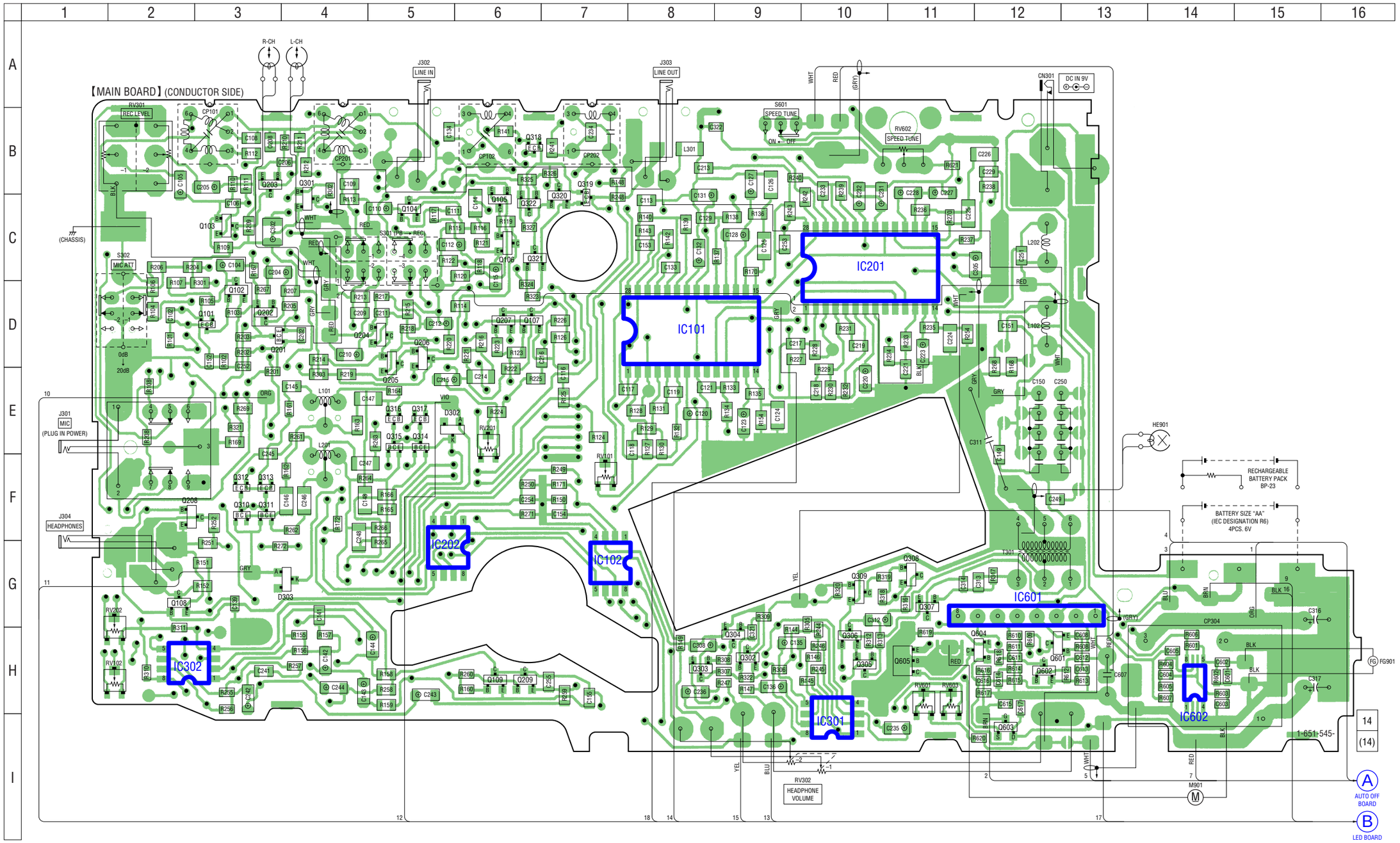
1-3. SCHEMATIC DIAGRAM – MAIN Section (2/2) –



1-4. PRINTED WIRING BOARD – MAIN Board (Component Side) –



1-5. PRINTED WIRING BOARD – MAIN Board (Conductor Side) –



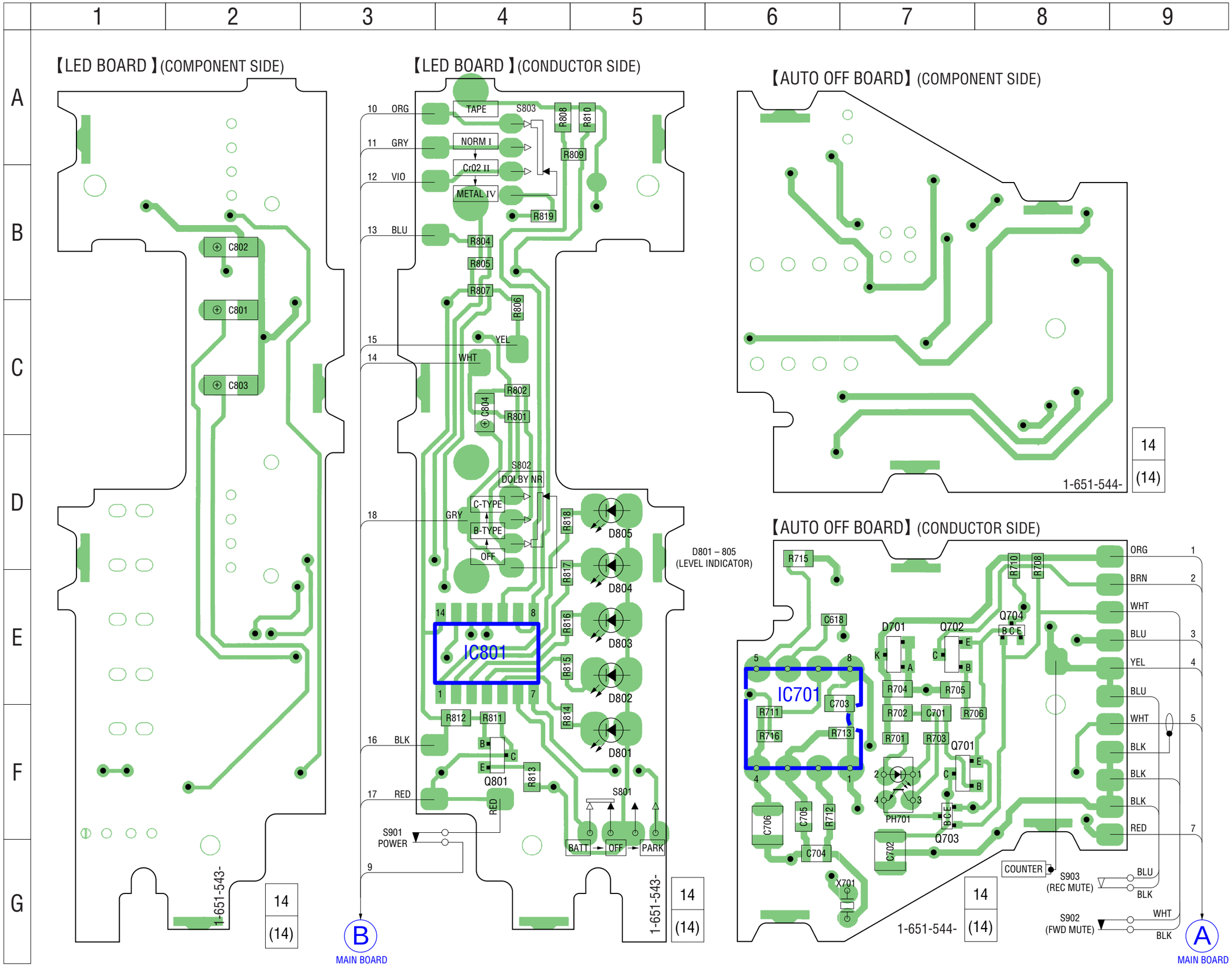
- **Semiconductor Location**

Ref. No.	Location
D302	E-5
D303	G-4
IC101	D-8
IC102	G-7
IC201	C-10
IC202	G-5
IC301	I-10
IC302	H-2
IC601	G-12
IC602	H-14
Q101	D-3
Q102	D-3
Q103	C-3
Q104	C-5
Q105	C-6
Q106	C-6
Q107	D-6
Q108	G-2
Q109	H-6
Q201	D-3
Q202	D-3
Q203	B-3
Q204	D-5
Q205	D-5
Q206	D-5
Q207	D-5
Q208	F-2
Q209	H-6
Q301	C-4
Q302	H-9
Q303	H-8
Q304	H-9
Q305	H-10
Q306	H-10
Q307	G-11
Q308	G-11
Q309	G-10
Q310	F-3
Q311	F-3
Q312	F-3
Q313	F-3
Q314	E-5
Q315	E-5
Q316	E-5
Q317	E-5
Q318	B-6
Q319	C-7
Q320	C-7
Q321	C-6
Q322	C-6
Q601	H-12
Q602	H-12
Q603	I-12
Q604	H-12
Q605	H-11

1-6. PRINTED WIRING BOARDS – LED/AUTO OFF Boards –

- **Semiconductor Location**

Ref. No.	Location
D701	E-7
D801	F-5
D802	E-5
D803	E-5
D804	D-5
D805	D-5
IC701	F-6
IC801	E-4
PH701	F-7
Q701	F-7
Q702	E-7
Q703	F-7
Q704	E-8
Q801	F-4



2. ELECTRICAL PARTS LIST

AUTO OFF **LED**

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
	A-3060-814-A	AUTO OFF BOARD, COMPLETE			
		**********			
*	3-308-430-01	RETAINER, REFLECTOR, PHOTO			
		< CAPACITOR >			
C618	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C701	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C702	1-104-852-11	TANTALUM CHIP	22uF	20%	10V
C703	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C704	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C705	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C706	1-104-913-11	TANTALUM CHIP	10uF	20%	16V
		< DIODE >			
D701	8-719-801-78	DIODE 1S2837-T1			
		< IC >			
IC701	8-759-958-14	IC MSM58141RS			
		< PHOTO REFLECTOR >			
PH701	8-749-920-99	PHOTO REFLECTOR GP2S22AB			
		< TRANSISTOR >			
Q701	8-729-120-28	TRANSISTOR	2SC1623-T1L6		
Q702	8-729-120-28	TRANSISTOR	2SC1623-T1L6		
Q703	8-729-420-50	TRANSISTOR	UN5215- (TX)		
Q704	8-729-420-50	TRANSISTOR	UN5215- (TX)		
		< RESISTOR >			
R701	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R702	1-216-109-00	METAL CHIP	330K	5%	1/10W
R703	1-216-845-11	METAL CHIP	100K	5%	1/16W
R704	1-216-103-00	METAL CHIP	180K	5%	1/10W
R705	1-216-103-00	METAL CHIP	180K	5%	1/10W
R706	1-216-841-11	METAL CHIP	47K	5%	1/16W
R708	1-216-837-11	METAL CHIP	22K	5%	1/16W
R710	1-216-847-11	METAL CHIP	150K	5%	1/16W
R711	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R712	1-216-845-11	METAL CHIP	100K	5%	1/16W
R713	1-216-857-11	METAL CHIP	1M	5%	1/16W
R715	1-216-129-00	METAL CHIP	2.2M	5%	1/10W
R716	1-216-812-11	METAL CHIP	180	5%	1/16W

Ref. No.	Part No.	Description			Remark
		< VIBRATOR >			
X701	1-527-957-00	OSCILLATOR, CRYSTAL (34.7kHz)			
**********					
	A-3060-816-A	LED BOARD, COMPLETE			
		**********			
*	3-305-888-00	RETAINER			
	3-305-897-00	HOLDER, LED			
	3-557-575-00	SPRING, COMPRESSION			
	3-831-441-99	SPACER (US)			
	4-017-441-01	CUSHION (B)			
	7-627-451-38	SCREW, PRECISION +K 1.4X2			
		< CAPACITOR >			
C801	1-126-193-11	ELECT	1uF	20%	50V
C802	1-126-603-11	ELECT CHIP	4.7uF	20%	35V
C803	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C804	1-135-177-21	TANTALUM CHIP	1uF	20%	20V
		< LED >			
D801	8-719-915-54	LED GL-9PR10 (LEVEL INDICATOR)			
D802	8-719-915-54	LED GL-9PR10 (LEVEL INDICATOR)			
D803	8-719-915-54	LED GL-9PR10 (LEVEL INDICATOR)			
D804	8-719-915-54	LED GL-9PR10 (LEVEL INDICATOR)			
D805	8-719-915-54	LED GL-9PR10 (LEVEL INDICATOR)			
		< IC >			
IC801	8-752-060-72	IC CX10043-T4			
		< TRANSISTOR >			
Q801	8-729-120-28	TRANSISTOR	2SC1623-T1L6		
		< RESISTOR >			
R801	1-216-833-11	METAL CHIP	10K	5%	1/16W
R802	1-216-833-11	METAL CHIP	10K	5%	1/16W
R804	1-216-845-11	METAL CHIP	100K	5%	1/16W
R805	1-216-833-11	METAL CHIP	10K	5%	1/16W
R806	1-216-845-11	METAL CHIP	100K	5%	1/16W
R807	1-216-833-11	METAL CHIP	10K	5%	1/16W
R808	1-216-075-00	METAL CHIP	12K	5%	1/10W
R809	1-216-842-11	METAL CHIP	56K	5%	1/16W
R810	1-216-093-11	RES-CHIP	68K	5%	1/10W

LED MAIN

Ref. No.	Part No.	Description			Remark
R811	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R812	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R813	1-216-001-00	METAL CHIP	10	5%	1/10W
R814	1-216-812-11	METAL CHIP	180	5%	1/16W
R815	1-216-812-11	METAL CHIP	180	5%	1/16W
R816	1-216-812-11	METAL CHIP	180	5%	1/16W
R817	1-216-812-11	METAL CHIP	180	5%	1/16W
R818	1-216-812-11	METAL CHIP	180	5%	1/16W
R819	1-216-821-11	METAL CHIP	1K	5%	1/16W
		< SWITCH >			
S801	1-554-746-11	SWITCH, SLIDE (PEAK/BATT)			
S802	1-552-642-00	SWITCH (DOLBY NR)			
S803	1-552-642-00	SWITCH (TAPE)			
**********					
	A-3021-241-A	MAIN BOARD, COMPLETE (French)			
*	A-3060-812-A	MAIN BOARD, COMPLETE (EXCEPT French)			
		**********			
	2-389-320-01	RUBER, (B)			
	3-305-801-00	SPRING			
	3-305-868-00	KNOB, SPEED CONTROL			
	3-305-873-00	TERMINAL BOARD, BATTERY			
	3-831-441-99	SPACER			
		< CAPACITOR >			
C101	1-128-594-11	ELECT CHIP	1uF	20%	50V
C102	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C103	1-126-207-11	ELECT CHIP	33uF	20%	4V
C104	1-135-177-21	TANTALUM CHIP	1uF	20%	20V
C105	1-135-177-21	TANTALUM CHIP	1uF	20%	20V
C106	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C107	1-126-603-11	ELECT CHIP	4.7uF	20%	35V
C108	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C109	1-163-008-11	CERAMIC CHIP	820PF	10%	50V
C110	1-135-210-11	TANTALUM CHIP	4.7uF	20%	10V
C111	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C112	1-135-210-11	TANTALUM CHIP	4.7uF	20%	10V
C113	1-163-006-11	CERAMIC CHIP	560PF	10%	50V
C114	1-104-555-11	FILM CHIP	0.022uF	5%	16V
C115	1-135-177-21	TANTALUM CHIP	1uF	20%	20V
C116	1-104-547-11	FILM CHIP	0.0047uF	5%	16V
C117	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C118	1-104-551-11	FILM CHIP	0.01uF	5%	16V
C119	1-104-551-11	FILM CHIP	0.01uF	5%	16V
C120	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C121	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V
C122	1-126-193-11	ELECT	1uF	20%	50V
C123	1-135-072-21	TANTALUM CHIP	0.22uF	10%	35V
C124	1-104-559-11	FILM CHIP	0.047uF	5%	16V
C125	1-104-559-11	FILM CHIP	0.047uF	5%	16V
C126	1-104-559-11	FILM CHIP	0.047uF	5%	16V
C127	1-135-070-00	TANTALUM CHIP	0.1uF	10%	35V
C128	1-135-072-21	TANTALUM CHIP	0.22uF	10%	35V
C129	1-163-020-00	CERAMIC CHIP	0.0082uF	10%	50V
C130	1-126-190-11	ELECT CHIP	0.33uF	20%	50V
C131	1-135-177-21	TANTALUM CHIP	1uF	20%	20V
C132	1-135-177-21	TANTALUM CHIP	1uF	20%	20V

Ref. No.	Part No.	Description			Remark
C133	1-104-551-11	FILM CHIP	0.01uF	5%	16V
C134	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C135	1-135-177-21	TANTALUM CHIP	1uF	20%	20V
C136	1-135-177-21	TANTALUM CHIP	1uF	20%	20V
C137	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C138	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C139	1-126-601-11	ELECT CHIP	2.2uF	20%	50V
C141	1-163-007-11	CERAMIC CHIP	680PF	10%	50V
C142	1-135-070-00	TANTALUM CHIP	0.1uF	10%	35V
C143	1-104-915-11	TANTALUM CHIP	2.2uF	20%	16V
C144	1-135-210-11	TANTALUM CHIP	4.7uF	20%	10V
C145	1-104-551-11	FILM CHIP	0.01uF	5%	16V
C146	1-104-553-11	FILM CHIP	0.015uF	5%	16V
C147	1-104-552-11	FILM CHIP	0.012uF	5%	16V
C148	1-104-553-11	FILM CHIP	0.015uF	5%	16V
C149	1-109-809-11	CAP-CHIP	2.2PF	0.25PF	100V
C150	1-110-500-11	ENCAPSULATED COMPONENT			
C151	1-163-988-11	CERAMIC CHIP	180PF	5%	100V
C152	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C153	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C154	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C155	1-163-006-11	CERAMIC CHIP	560PF	10%	50V
C201	1-128-594-11	ELECT CHIP	1uF	20%	50V
C202	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C203	1-126-207-11	ELECT CHIP	33uF	20%	4V
C204	1-135-177-21	TANTALUM CHIP	1uF	20%	20V
C205	1-135-177-21	TANTALUM CHIP	1uF	20%	20V
C206	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C207	1-126-603-11	ELECT CHIP	4.7uF	20%	35V
C208	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C209	1-163-008-11	CERAMIC CHIP	820PF	10%	50V
C210	1-135-210-11	TANTALUM CHIP	4.7uF	20%	10V
C211	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C212	1-135-210-11	TANTALUM CHIP	4.7uF	20%	10V
C213	1-163-006-11	CERAMIC CHIP	560PF	10%	50V
C214	1-104-555-11	FILM CHIP	0.022uF	5%	16V
C215	1-135-177-21	TANTALUM CHIP	1uF	20%	20V
C216	1-104-547-11	FILM CHIP	0.0047uF	5%	16V
C217	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C218	1-104-551-11	FILM CHIP	0.01uF	5%	16V
C219	1-104-551-11	FILM CHIP	0.01uF	5%	16V
C220	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C221	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V
C222	1-126-193-11	ELECT	1uF	20%	50V
C223	1-135-072-21	TANTALUM CHIP	0.22uF	10%	35V
C224	1-104-559-11	FILM CHIP	0.047uF	5%	16V
C225	1-104-559-11	FILM CHIP	0.047uF	5%	16V
C226	1-104-559-11	FILM CHIP	0.047uF	5%	16V
C227	1-135-070-00	TANTALUM CHIP	0.1uF	10%	35V
C228	1-135-072-21	TANTALUM CHIP	0.22uF	10%	35V
C229	1-163-020-00	CERAMIC CHIP	0.0082uF	10%	50V
C230	1-126-190-11	ELECT CHIP	0.33uF	20%	50V
C231	1-135-177-21	TANTALUM CHIP	1uF	20%	20V
C232	1-135-177-21	TANTALUM CHIP	1uF	20%	20V
C233	1-104-551-11	FILM CHIP	0.01uF	5%	16V
C234	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C235	1-135-177-21	TANTALUM CHIP	1uF	20%	20V
C236	1-135-177-21	TANTALUM CHIP	1uF	20%	20V

MAIN

Ref. No.	Part No.	Description			Remark
C237	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C238	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C239	1-126-601-11	ELECT CHIP	2.2uF	20%	50V
C241	1-163-007-11	CERAMIC CHIP	680PF	10%	50V
C242	1-135-070-00	TANTALUM CHIP	0.1uF	10%	35V
C243	1-104-915-11	TANTALUM CHIP	2.2uF	20%	16V
C244	1-135-210-11	TANTALUM CHIP	4.7uF	20%	10V
C245	1-104-551-11	FILM CHIP	0.01uF	5%	16V
C246	1-104-553-11	FILM CHIP	0.015uF	5%	16V
C247	1-104-552-11	FILM CHIP	0.012uF	5%	16V
C248	1-104-553-11	FILM CHIP	0.015uF	5%	16V
C249	1-109-809-11	CAP-CHIP	2.2PF	0.25PF	100V
C250	1-110-500-11	ENCAPSULATED COMPONENT			
C251	1-163-988-11	CERAMIC CHIP	180PF	5%	100V
C252	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C253	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C254	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C255	1-163-006-11	CERAMIC CHIP	560PF	10%	50V
C301	1-126-395-11	ELECT	22uF	20%	16V
C302	1-104-913-11	TANTALUM CHIP	10uF	20%	16V
C303	1-124-779-00	ELECT CHIP	10uF	20%	16V
C304	1-126-395-11	ELECT	22uF	20%	16V
C305	1-104-847-11	TANTALUM CHIP	22uF	20%	4V
C306	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C307	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C308	1-107-686-11	TANTALUM CHIP	4.7uF	20%	16V
C309	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C310	1-126-601-11	ELECT CHIP	2.2uF	20%	50V
C311	1-130-896-11	FILM	0.0082uF	5%	400V
C312	1-104-915-11	TANTALUM CHIP	2.2uF	20%	16V
C313	1-104-547-11	FILM CHIP	0.0047uF	5%	16V
C314	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C316	1-104-666-11	ELECT	220uF	20%	25V
C317	1-104-666-11	ELECT	220uF	20%	25V
C318	1-126-246-11	ELECT CHIP	220uF	20%	4V
C319	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C320	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C321	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C322	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C601	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C602	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C603	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C604	1-164-362-11	CERAMIC CHIP	470PF	5%	50V
C605	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C607	1-130-481-00	MYLAR	0.0068uF	5%	50V
C608	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C609	1-126-393-11	ELECT CHIP	33uF	20%	10V
C610	1-126-204-11	ELECT CHIP	47uF	20%	16V
C611	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C612	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C613	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C614	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C615	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C616	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C617	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
CN301	1-507-749-00	JACK, EXTENTION POWER (DC IN 6V)	
		< COMPOSITION CIRCUIT BLOCK >	
CP101	1-235-317-11	FILTER, LOW PASS	
CP102	1-235-318-11	FILTER, SP-SK	
CP201	1-235-317-11	FILTER, LOW PASS	
CP202	1-235-318-11	FILTER, SP-SK	
CP304	1-464-183-21	CONVERTER UNIT, DC-DC	
		< DIODE >	
D302	8-719-801-78	DIODE 1S2837-T1	
D303	8-719-801-78	DIODE 1S2837-T1	
		< IC >	
IC101	8-752-021-80	IC CX20218-T6	
IC102	8-759-700-50	IC NJM386M-T1	
IC201	8-752-021-80	IC CX20218-T6	
IC202	8-759-700-50	IC NJM386M-T1	
IC301	8-759-100-96	IC NJM4558M-TE2	
IC302	8-759-100-96	IC NJM4558M-TE2	
IC601	8-759-600-69	IC CX-069A	
IC602	8-759-337-40	IC NJM2904V (TE2)	
		< JACK >	
J301	1-507-794-31	JACK, SMALL TYPE (WITH SWITCH) (MIC, PLUG IN POWER)	
J302	1-507-929-41	JACK (LINE IN)	
J303	1-507-929-41	JACK (LINE OUT)	
J304	1-507-929-11	JACK (HEADPHONES)	
		< COIL >	
L101	1-408-682-00	INDUCTOR 10mH	
L102	1-408-930-00	INDUCTOR 33mH	
L201	1-408-682-00	INDUCTOR 10mH	
L202	1-408-930-00	INDUCTOR 33mH	
L301	1-410-198-51	INDUCTOR 3.3uH	
		< TRANSISTOR >	
Q101	8-729-021-87	TRANSISTOR 2SA1587-GRBL-TE85L	
Q102	8-729-120-28	TRANSISTOR 2SC1623-T1L6	
Q103	8-729-120-28	TRANSISTOR 2SC1623-T1L6	
Q104	8-729-016-81	TRANSISTOR 2SC2412KLN-T146-S	
Q105	8-729-120-28	TRANSISTOR 2SC1623-T1L6	
Q106	8-729-120-28	TRANSISTOR 2SC1623-T1L6	
Q107	8-729-120-28	TRANSISTOR 2SC1623-T1L6	
Q108	8-729-920-31	TRANSISTOR DTC343TK-T-146	
Q109	8-729-120-28	TRANSISTOR 2SC1623-T1L6	
Q201	8-729-021-87	TRANSISTOR 2SA1587-GRBL-TE85L	
Q202	8-729-120-28	TRANSISTOR 2SC1623-T1L6	
Q203	8-729-120-28	TRANSISTOR 2SC1623-T1L6	
Q204	8-729-016-81	TRANSISTOR 2SC2412KLN-T146-S	
Q205	8-729-120-28	TRANSISTOR 2SC1623-T1L6	
Q206	8-729-120-28	TRANSISTOR 2SC1623-T1L6	
Q207	8-729-120-28	TRANSISTOR 2SC1623-T1L6	
Q208	8-729-920-31	TRANSISTOR DTC343TK-T-146	
Q209	8-729-120-28	TRANSISTOR 2SC1623-T1L6	
Q301	8-729-120-28	TRANSISTOR 2SC1623-T1L6	

MAIN

Ref. No.	Part No.	Description			Remark
Q302	8-729-120-28	TRANSISTOR	2SC1623-T1L6		
Q303	8-729-162-45	TRANSISTOR	2SB624-T1BV5		
Q304	8-729-120-28	TRANSISTOR	2SC1623-T1L6		
Q305	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q306	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q307	8-729-141-75	TRANSISTOR	2SD596T1-DV345		
Q308	8-729-162-45	TRANSISTOR	2SB624-T1BV5		
Q309	8-729-120-28	TRANSISTOR	2SC1623-T1L6		
Q310	8-729-420-50	TRANSISTOR	UN5215- (TX)		
Q311	8-729-420-50	TRANSISTOR	UN5215- (TX)		
Q312	8-729-420-50	TRANSISTOR	UN5215- (TX)		
Q313	8-729-420-50	TRANSISTOR	UN5215- (TX)		
Q314	8-729-420-50	TRANSISTOR	UN5215- (TX)		
Q315	8-729-420-50	TRANSISTOR	UN5215- (TX)		
Q316	8-729-420-50	TRANSISTOR	UN5215- (TX)		
Q317	8-729-420-50	TRANSISTOR	UN5215- (TX)		
Q318	8-729-420-50	TRANSISTOR	UN5215- (TX)		
Q319	8-729-420-50	TRANSISTOR	UN5215- (TX)		
Q320	8-729-120-28	TRANSISTOR	2SC1623-T1L6		
Q321	8-729-120-28	TRANSISTOR	2SC1623-T1L6		
Q322	8-729-216-22	TRANSISTOR	2SA812-T1M6		
Q601	8-729-120-28	TRANSISTOR	2SC1623-T1L6		
Q602	8-729-216-22	TRANSISTOR	2SA812-T1M6		
Q603	8-729-109-44	TRANSISTOR	2SK209Y-TE85L		
Q604	8-729-120-28	TRANSISTOR	2SC1623-T1L6		
Q605	8-729-101-07	TRANSISTOR	2SB798-T1DK		
		< RESISTOR >			
R101	1-216-845-11	METAL CHIP	100K	5%	1/16W
R102	1-216-838-11	METAL CHIP	27K	5%	1/16W
R103	1-216-833-11	METAL CHIP	10K	5%	1/16W
R104	1-216-029-00	METAL CHIP	150	5%	1/10W
R105	1-216-839-11	METAL CHIP	33K	5%	1/16W
R106	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R107	1-216-063-00	RES-CHIP	3.9K	5%	1/10W
R108	1-216-837-11	METAL CHIP	22K	5%	1/16W
R109	1-216-113-00	METAL CHIP	470K	5%	1/10W
R110	1-216-857-11	METAL CHIP	1M	5%	1/16W
R111	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R112	1-216-047-00	RES-CHIP	820	5%	1/10W
R113	1-216-095-00	METAL CHIP	82K	5%	1/10W
R114	1-216-697-11	METAL CHIP	82K	0.5%	1/10W
R115	1-216-027-00	METAL CHIP	120	5%	1/10W
R116	1-216-068-00	METAL CHIP	6.2K	5%	1/10W
R117	1-216-845-11	METAL CHIP	100K	5%	1/16W
R118	1-216-815-11	METAL CHIP	330	5%	1/16W
R119	1-216-075-00	METAL CHIP	12K	5%	1/10W
R120	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R121	1-216-846-11	METAL CHIP	120K	5%	1/16W
R122	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R123	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R124	1-216-075-00	METAL CHIP	12K	5%	1/10W
R125	1-216-079-00	METAL CHIP	18K	5%	1/10W
R126	1-216-113-00	METAL CHIP	470K	5%	1/10W
R127	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R128	1-216-068-00	METAL CHIP	6.2K	5%	1/10W
R129	1-216-066-00	METAL CHIP	5.1K	5%	1/10W
R130	1-216-092-00	RES-CHIP	62K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R131	1-216-056-00	RES-CHIP	2K	5%	1/10W
R132	1-216-839-11	METAL CHIP	33K	5%	1/16W
R133	1-216-056-00	RES-CHIP	2K	5%	1/10W
R134	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R135	1-216-090-00	METAL CHIP	51K	5%	1/10W
R136	1-216-109-00	METAL CHIP	330K	5%	1/10W
R137	1-216-821-11	METAL CHIP	1K	5%	1/16W
R138	1-216-076-00	METAL CHIP	13K	5%	1/10W
R139	1-216-076-00	METAL CHIP	13K	5%	1/10W
R140	1-216-839-11	METAL CHIP	33K	5%	1/16W
R141	1-216-045-00	METAL CHIP	680	5%	1/10W
R142	1-216-056-00	RES-CHIP	2K	5%	1/10W
R143	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R144	1-216-841-11	METAL CHIP	47K	5%	1/16W
R145	1-216-842-11	METAL CHIP	56K	5%	1/16W
R146	1-216-833-11	METAL CHIP	10K	5%	1/16W
R147	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R148	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R149	1-216-835-11	METAL CHIP	15K	5%	1/16W
R150	1-216-841-11	METAL CHIP	47K	5%	1/16W
R151	1-216-039-00	METAL CHIP	390	5%	1/10W
R152	1-216-005-00	METAL CHIP	15	5%	1/10W (EXCEPT French)
R152	1-216-042-00	METAL CHIP	510	5%	1/10W (French)
R154	1-218-763-11	RES-CHIP	300K	5%	1/10W
R155	1-216-839-11	METAL CHIP	33K	5%	1/16W
R156	1-216-842-11	METAL CHIP	56K	5%	1/16W
R157	1-216-845-11	METAL CHIP	100K	5%	1/16W
R158	1-216-063-00	RES-CHIP	3.9K	5%	1/10W
R159	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R160	1-216-833-11	METAL CHIP	10K	5%	1/16W
R161	1-202-924-11	RES-CHIP	240	5%	1/16W
R162	1-216-812-11	METAL CHIP	180	5%	1/16W
R163	1-216-035-00	METAL CHIP	270	5%	1/10W
R164	1-216-837-11	METAL CHIP	22K	5%	1/16W
R165	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R166	1-216-072-00	METAL CHIP	9.1K	5%	1/10W
R167	1-216-845-11	METAL CHIP	100K	5%	1/16W
R168	1-216-095-00	METAL CHIP	82K	5%	1/10W
R169	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R170	1-216-857-11	METAL CHIP	1M	5%	1/16W
R171	1-216-821-11	METAL CHIP	1K	5%	1/16W
R172	1-216-837-11	METAL CHIP	22K	5%	1/16W
R201	1-216-845-11	METAL CHIP	100K	5%	1/16W
R202	1-216-838-11	METAL CHIP	27K	5%	1/16W
R203	1-216-833-11	METAL CHIP	10K	5%	1/16W
R204	1-216-029-00	METAL CHIP	150	5%	1/10W
R205	1-216-839-11	METAL CHIP	33K	5%	1/16W
R206	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R207	1-216-063-00	RES-CHIP	3.9K	5%	1/10W
R208	1-216-837-11	METAL CHIP	22K	5%	1/16W
R209	1-216-113-00	METAL CHIP	470K	5%	1/10W
R210	1-216-857-11	METAL CHIP	1M	5%	1/16W
R211	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R212	1-216-047-00	RES-CHIP	820	5%	1/10W
R213	1-216-095-00	METAL CHIP	82K	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R214	1-216-697-11	METAL CHIP	82K	0.5%	1/10W
R215	1-216-027-00	METAL CHIP	120	5%	1/10W
R216	1-216-068-00	METAL CHIP	6.2K	5%	1/10W
R217	1-216-845-11	METAL CHIP	100K	5%	1/16W
R218	1-216-815-11	METAL CHIP	330	5%	1/16W
R219	1-216-075-00	METAL CHIP	12K	5%	1/10W
R220	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R221	1-216-846-11	METAL CHIP	120K	5%	1/16W
R222	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R223	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R224	1-216-075-00	METAL CHIP	12K	5%	1/10W
R225	1-216-079-00	METAL CHIP	18K	5%	1/10W
R226	1-216-113-00	METAL CHIP	470K	5%	1/10W
R227	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R228	1-216-068-00	METAL CHIP	6.2K	5%	1/10W
R229	1-216-066-00	METAL CHIP	5.1K	5%	1/10W
R230	1-216-092-00	RES-CHIP	62K	5%	1/10W
R231	1-216-056-00	RES-CHIP	2K	5%	1/10W
R232	1-216-839-11	METAL CHIP	33K	5%	1/16W
R233	1-216-056-00	RES-CHIP	2K	5%	1/10W
R234	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R235	1-216-090-00	METAL CHIP	51K	5%	1/10W
R236	1-216-109-00	METAL CHIP	330K	5%	1/10W
R237	1-216-821-11	METAL CHIP	1K	5%	1/16W
R238	1-216-076-00	METAL CHIP	13K	5%	1/10W
R239	1-216-076-00	METAL CHIP	13K	5%	1/10W
R240	1-216-839-11	METAL CHIP	33K	5%	1/16W
R241	1-216-045-00	METAL CHIP	680	5%	1/10W
R242	1-216-056-00	RES-CHIP	2K	5%	1/10W
R243	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R244	1-216-841-11	METAL CHIP	47K	5%	1/16W
R245	1-216-842-11	METAL CHIP	56K	5%	1/16W
R246	1-216-833-11	METAL CHIP	10K	5%	1/16W
R247	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R248	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R249	1-216-835-11	METAL CHIP	15K	5%	1/16W
R250	1-216-841-11	METAL CHIP	47K	5%	1/16W
R251	1-216-039-00	METAL CHIP	390	5%	1/10W
R252	1-216-005-00	METAL CHIP	15	5%	1/10W (EXCEPT French)
R252	1-216-042-00	METAL CHIP	510	5%	1/10W (French)
R254	1-218-763-11	RES-CHIP	300K	5%	1/10W
R255	1-216-839-11	METAL CHIP	33K	5%	1/16W
R256	1-216-842-11	METAL CHIP	56K	5%	1/16W
R257	1-216-845-11	METAL CHIP	100K	5%	1/16W
R258	1-216-063-00	RES-CHIP	3.9K	5%	1/10W
R259	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R260	1-216-833-11	METAL CHIP	10K	5%	1/16W
R261	1-202-924-11	RES-CHIP	240	5%	1/16W
R262	1-216-812-11	METAL CHIP	180	5%	1/16W
R263	1-216-035-00	METAL CHIP	270	5%	1/10W
R264	1-216-837-11	METAL CHIP	22K	5%	1/16W
R265	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R266	1-216-072-00	METAL CHIP	9.1K	5%	1/10W
R267	1-216-845-11	METAL CHIP	100K	5%	1/16W
R268	1-216-095-00	METAL CHIP	82K	5%	1/10W
R269	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R270	1-216-857-11	METAL CHIP	1M	5%	1/16W
R271	1-216-821-11	METAL CHIP	1K	5%	1/16W
R272	1-216-837-11	METAL CHIP	22K	5%	1/16W
R301	1-216-075-00	METAL CHIP	12K	5%	1/10W
R302	1-216-833-11	METAL CHIP	10K	5%	1/16W
R303	1-216-075-00	METAL CHIP	12K	5%	1/10W
R305	1-216-838-11	METAL CHIP	27K	5%	1/16W
R306	1-216-837-11	METAL CHIP	22K	5%	1/16W
R307	1-216-845-11	METAL CHIP	100K	5%	1/16W
R308	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R309	1-216-845-11	METAL CHIP	100K	5%	1/16W
R310	1-216-837-11	METAL CHIP	22K	5%	1/16W
R311	1-216-838-11	METAL CHIP	27K	5%	1/16W
R312	1-202-924-11	RES-CHIP	240	5%	1/16W
R313	1-216-804-11	METAL CHIP	39	5%	1/16W
R316	1-216-803-11	METAL CHIP	33	5%	1/16W
R317	1-216-841-11	METAL CHIP	47K	5%	1/16W
R318	1-216-839-11	METAL CHIP	33K	5%	1/16W
R319	1-216-839-11	METAL CHIP	33K	5%	1/16W
R320	1-216-846-11	METAL CHIP	120K	5%	1/16W
R321	1-216-821-11	METAL CHIP	1K	5%	1/16W
R322	1-216-833-11	METAL CHIP	10K	5%	1/16W
R323	1-216-841-11	METAL CHIP	47K	5%	1/16W
R324	1-216-845-11	METAL CHIP	100K	5%	1/16W
R325	1-216-105-00	RES-CHIP	220K	5%	1/10W
R326	1-216-837-11	METAL CHIP	22K	5%	1/16W
R327	1-216-841-11	METAL CHIP	47K	5%	1/16W
R601	1-216-841-11	METAL CHIP	47K	5%	1/16W
R602	1-216-839-11	METAL CHIP	33K	5%	1/16W
R603	1-216-821-11	METAL CHIP	1K	5%	1/16W
R604	1-216-847-11	METAL CHIP	150K	5%	1/16W
R605	1-216-833-11	METAL CHIP	10K	5%	1/16W
R606	1-216-812-11	METAL CHIP	180	5%	1/16W
R607	1-216-835-11	METAL CHIP	15K	5%	1/16W
R608	1-216-845-11	METAL CHIP	100K	5%	1/16W
R609	1-216-841-11	METAL CHIP	47K	5%	1/16W
R610	1-216-822-11	METAL CHIP	1.2K	5%	1/16W
R611	1-216-817-11	METAL CHIP	470	5%	1/16W
R612	1-216-845-11	METAL CHIP	100K	5%	1/16W
R613	1-216-857-11	METAL CHIP	1M	5%	1/16W
R614	1-218-296-11	RES-CHIP	75K	5%	1/16W
R615	1-216-845-11	METAL CHIP	100K	5%	1/16W
R616	1-216-845-11	METAL CHIP	100K	5%	1/16W
R617	1-216-815-11	METAL CHIP	330	5%	1/16W
R618	1-216-809-11	METAL CHIP	100	5%	1/16W
R619	1-218-484-11	RES-CHIP	750	5%	1/16W
R620	1-216-847-11	METAL CHIP	150K	5%	1/16W
R621	1-216-847-11	METAL CHIP	150K	5%	1/16W

< VARIABLE RESISTOR >

RV101	1-225-870-21	RES, ADJ, CERMET 10K
RV102	1-225-870-21	RES, ADJ, CERMET 10K
RV201	1-225-870-21	RES, ADJ, CERMET 10K
RV202	1-225-870-21	RES, ADJ, CERMET 10K
RV301	1-230-275-11	RES, VAR, CARBON 50K/50K (REC LEVEL)
RV302	1-228-545-00	RES, VAR, SLIDE 50K/50K (HEADPHONE VOLUME)
RV601	1-241-596-11	RES, ADJ, CERMET 47K

MAIN

Ref. No.	Part No.	Description	Remark
RV602	1-228-607-00	RES, VAR, CARBON 20K (SPEED TUNE)	
RV603	1-241-596-11	RES, ADJ, CERMET 47K	
		< SWITCH >	
S301	1-554-029-11	SWITCH, SLIDE (PLAY/REC)	
S302	1-554-222-00	SWITCH, SLIDE (MIC ATT)	
S601	1-570-856-11	SWITCH, SLIDE (SPEED TUNE)	
		< TRANSFORMER >	
T301	1-433-244-00	TRANSFORMER, BIAS OSCILLATOR	

MEMO

REVISION HISTORY

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Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.1	2001.05	Change of servo circuit (ECN-WMA00831)
1.0	1999.04 1994.03 1985.01 1984.02	Supplement-3 Suuplement-2 Supplement New